Chapter 2 Review

Choosing a method to solve an equation!

Unit Title: Futurama

Unit Question: Where am I Going?

Learner Profile: Reflective

Area of Interaction:
Health & Social Education

I Can Statement:

I can solve a system of equation using various methods.

How you determine which method to use when solving a system of equations?

Method	The Best Time to Use
Graphing	When trying to see the number of solutions. Best to estimate.
Substitution	If there is a 1 in front of the variable. y = or x = , or when both are in slope-intercept form.
Elimination Using Addition	Variables have the opposite number in front of them.
Elimination Using Subtraction	When the variables have the same number in front of them.
Elimination Using Multiplication	When none of the above are true!

Determine the best method to solve the system of equations and then solve the system.

graph - not in slope intercept
substitution. not set = to x or y
elimination +
elimination −
elimination X

Example 1:

$4x - 3y = 12$

$x + 2y = 14$

$4x - 3x = 12$

$4x + 8x = 56$

$-3y = -44$

$-11x = -11$

$x = 4$

Determine the best method to solve the system of equations and then solve the system.

Elimin +

Example 2:

$y = 3x$

$3x + 4y = 30$

$4y = -3x + 30$

$y = 3x$

$5y = 30$

$y = 6$

Determine the best method to solve the system of equations and then solve the system.

Example 3:

$2x - 3y = 12$

$x + 3y = 12$

$3x = 24$

$\frac{3x}{3} = \frac{24}{3}$

$x = 8$

Assignment:

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